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SIGNIFICANT PERMIT REVISION NO. 45014 TO AIR QUALITY PERMIT NO. 1001222 LIQUIDTITAN LLC

SIGNIFICANT PERMIT REVISION DESCRIPTION

This Significant Permit Revision No. 45014 to Operating Permit No. 1001222 issued to LiquidTitan LLC is for operation of a 347-KW emergency diesel generator at their transmix processing facility located at Parker, Arizona.

This significant revision will result in following changes to the Permit No. 1001222:

Attachment "B"

Section IV of the Permit No. 1001222 is revised to include requirements for the emergency generator, and shall read as following:

IV. DIESEL FIRE PUMPS AND EMERGENCY GENERATOR

A. Applicability

This section applies to the fire pumps and emergency generator as identified in Attachment "C".

B. Operating Limitations

1. Fuel shall be limited to commercial grade no. 2 diesel fuel. [A.A.C. R18-2-306.01]
2. Diesel fuel that is generated at the facility and which is equivalent to commercial diesel no. 2 fuel may be used as a fuel in the emergency generator and fire pumps. Certification as to the equivalency of self-generated fuel to commercial diesel no. 2 shall be maintained on-site and be provided to department representatives upon request. [A.A.C. R18-2-306.A.3.c]
3. The Permittee shall not operate the emergency generator for more than 200 hours per year, on a rolling twelve month total.
[A.A.C. R18-2-306.01 and 331.A.3.a]
[Material permit conditions are indicated by underline and italics]
4. Monitoring and Recordkeeping

The Permittee shall keep records of monthly totals of the hours of operation of emergency generator. At the end of each month, the Permittee shall calculate and record a rolling 12-month total of the hours of operation.

[A.A.C. R18-2-306.A.3.c]

C. Particulate Matter and Opacity Standard

1. Emissions Limitations/Standards
 - a. The Permittee shall not cause, allow or permit to be emitted into the atmosphere from the emergency generator and fire pumps smoke for any period of time greater than ten consecutive seconds, which exceeds 40

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percent opacity, measured in accordance with the Arizona Testing Manual, Reference Method 9. Visible emissions when starting cold equipment shall be exempt from this requirement for the first ten minutes. [A.A.C. R18-2-719.E]

- b. The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from the fire pumps, or emergency generator in excess of the amounts calculated by the following equation:

$$E = 1.02Q^{0.769}$$

where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

Q = the heat input in million BTU per hour.

[A.A.C. R18-2-719.C.1]

- c. For the purposes of Condition IV.C.1.b above, the heat unit shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet. Compliance tests shall be conducted during operation at the normal rated capacity of each unit. The total heat input of all operating units on a plant or premises shall be used for determining the maximum allowable amount of particulate matter, which may be emitted.

[A.A.C. R18-2-719.B]

2. Monitoring, Recordkeeping and Reporting Requirements[A.A.C. R18-2-306.A.3.c]

- a. A certified EPA Reference Method 9 observer shall conduct a quarterly survey of visible emissions emanating from the emergency generator and fire pumps, when in operation. If the opacity of the emissions observed appears to exceed the standard, then the observer shall conduct a certified EPA Reference Method 9 observation. The Permittee shall keep records of the name of observer, date, time and result of the survey and observation. If the Method 9 reading indicates exceedance of the standard, the Permittee shall take corrective action and log such activities.
- b. The Permittee shall maintain records of supplier certification for the diesel fuel purchased for combustion.
- c. The Permittee shall maintain a daily log of the amount of in house diesel combusted in the fire pumps.

3. Permit Shield

Compliance with the conditions of this Section shall be deemed compliance with A.A.C. R18-2-719.B, A.A.C. R18-2-719.C.1, A.A.C. R18-2-719.E and A.A.C. R18-2-719.I. [A.A.C. R18-2-325]

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D. Sulfur Dioxide (SO₂) Standards

1. Emission Limitation/Standard

The Permittee shall not use diesel fuel containing sulfur content equal to or greater than 0.80% by weight in the emergency generator or diesel fire pumps.

[A.A.C. R18-2-719.H]

2. Monitoring and Recordkeeping Requirements

The Permittee shall maintain records of supplier certification that indicates sulfur content of the diesel purchased for combustion, and equivalency certification indicating sulfur content of self-generated fuel.

[A.A.C. R18-2-306.A.3.c & R-18-2-719.I]

3. Permit Shield

Compliance with the conditions of this Section shall be deemed compliance with A.A.C.R18-2-719.H and A.A.C.R18-2-719.I.

[A.A.C. R18-2-325]

Attachment "C"

The following equipment shall be included in the Equipment List in Attachment "C" of the Permit No.1001222 (as revised by Significant Revision No.42759).

EQUIPMENT TYPE	MAKE	MODEL	SERIAL NUMBER	DATE OF MFG.	MAX CAPACITY	EQUIPMENT ID	NSPS
Emergency Generator	Cummins	NTA855-G2	23240017	1995	347kW (465hp)	347 kW E.G.	No